BNL Beryllium Use Review Form

Dept	Building	Room (Area, location)
Magnet Division/NSLS-II	**902**	**902 Annex**

Users (Name/Life#) or (Job Title):
Animesh Jain - #20139
George Ganetis - #14674
Dan Sullivan - #16056
Paul Ribaudo - #15116
Andrew Sauerwald - #19928
John Cintorino - #16918
John McCaffrey - #10405

Status of beryllium use:
_X In use on frequent basis ___ Planned use in the near future ___ Possible Future Use
___ No planned use: ___ keep ____ dispose ___ Legacy (inherited): ___ keep ____ dispose

Describe Use or Process (such as Analytical Standard, Window, Beam Tube, Attenuator, Sample holder, Stock material, etc): Vibrating Wire experiment

_X_ Meets definition of "Article" ____ Meets definition of "laboratory use"

Describe Handling Procedure: (such as "*article removed from storage bag, and inserted into holder, without the need for physical alteration of article*")
Required length of Cu-Be wire (between 1 and 7 meters long; 2% Be) will be removed from a spool of wire and attached to one end of a measurement fixture. The other end will pass over a pulley and the wire will be kept in tension by hanging a weight of approximately 1.5 Kg.

Potential for Airborne Exposure Assessment: (include measured or predicted air concentration and method of determining concentration)
The process of cutting a length of 0.005" diameter Cu-Be alloy wire is not expected to produce any significant air concentration of Beryllium.

Amount used: (such as grams per month)
Less than 1 gram.

Frequency of use: (such as # days per year or month, # tests per year, in continuous use, etc.)
Will be in continuous use.

Precautions during Use: (check all that apply)
___ Always opened and used in lab hood
_X Handled on lab bench or room
___ Used in closed system
___ Other: Integral with wire

___ Parts encapsulated
___ Parts coated

Storage: (check all that apply)
___ In vented cabinet
_X_ On lab shelf , lab bench, or cabinet
___ Inside lab hood
Other:

_X_ Stored in bags or bottles
___ Locked area/cabinet, access control

Written Documentation:
_X_ Experimental Review (Work Planning and Control for Experiments and Operations Subject Area)
___ Material recorded in CMS Inventory
___ Static inventory
_X_ Work Permit (Work Planning and Control for Experiments and Operations Subject Area)
___ Written SOP (describe): ___ Each part bar coded

Personal Protective Equipment used:

___ Gloves (describe material, thickness):
___ Impervious suit ___ Lab coat ___BNL laundered clothing
___ Respirator, type:

Spill, Release, Breakage Clean-up Plan (Describe possible release scenario and action, including clean-up worker training, exposure monitoring, personal protective equipment, and disposal):
The wire may break during use. However, it is not expected to cause any significant release of Beryllium into the atmosphere.

Pollution Prevention Plan: (Describe pollution prevention and waste minimization measures):
Cu-Be waste will be minimized by careful handling to avoid breakage of the wire in routine use. Any waste Cu-Be wire will be disposed of as hazardous waste.

End of Project Plan: (Describe the actions when the use of beryllium is no longer needed, including accounting for material consumption and funding of disposal):
Any left-over Cu-Be wire will be stored in a plastic bag in a cabinet.

Completed by: Animesh Jain	**Date:** 8/26/2008
Reviewed by: Kenneth Krasner	**Date:** 8/26/08
Approved by: Nicholas Gmür	**Date:** 8/26/08